Claims:

- 1. A fixed abrasive article comprising a three-dimensional abrasive composite in the form of abrasive composite elements, and further comprising a wear indicator.
- 2. The fixed abrasive article of claim 1 wherein the three-dimensional, fixed abrasive article is textured.
- 3. The fixed abrasive article of claim 1 comprising erodable abrasive composite elements.
- 4. The fixed abrasive article of claim 3 wherein the abrasive composite elements comprise a plurality of cylindrical posts.
- 5. The fixed abrasive article of claim 1 comprising a precisely-shaped abrasive composite.
- 6. The fixed abrasive article of claim 1 wherein the wear indicator comprises a visible marker in a binder.
- 7. The fixed abrasive article of claim 1 wherein the marker comprises a metallic material, a visible material, or a magnetic material.
- 8. The fixed abrasive article of claim 1 wherein the wear indicator comprises a colored marker.
- 9. The fixed abrasive article of claim 8 wherein the colored marker is chosen from the group consisting of a dye, a pigment, or a colorant.
- 10. The fixed abrasive article of claim 1 wherein the wear indicator comprises a visible marker contained in a binder.

- 11. The fixed abrasive article of claim 1 wherein the wear indicator comprises an abradable wear indicator coated on an abrasive surface of the fixed abrasive article.
- 12. The fixed abrasive article of claim 1 wherein the wear indicator comprises an abradable wear indicator embedded in an abrasive composite.
- 13. The fixed abrasive article of claim 1 wherein the wear indicator comprises a visible marker contained in a lower ten percent by height of an abrasive composite element.
- 14. The fixed abrasive article of claim 1 wherein the wear indicator comprises a wear indicator composite comprising a wear indicator and a binder adhered to a base, wherein upon contacting the substrate the wear indicator-composite element indicates contact between the wear indicator and the substrate.
- 15. The fixed abrasive article of claim 1 wherein the article comprises a fixed abrasive pad:
- 16. The fixed abrasive article of claim 1 wherein the article comprises a fixed abrasive belt.
- 17. A fixed abrasive article comprising posts having an inert chemical or mechanical indication to indicate post consumption.
- 18. The fixed abrasive article of claim 17 wherein the fixed abrasive article is a pad.